



**FIG. 2**

```
public interface StateAggregator
{
    //Returns the resulting state based on composite states
    public State getAggregatedState(State [ ] compositeStates,
                                   GSContext gsc )
        throws StateAggregatorException;
    public String getAggregatorType()
        throws StateAggregatorException;
}

//Pseudo code illustrating the use of state aggregation
modifyPurchaseOrder(PO, ...)
{
    State[] lineItemStateArray;
    for every line Item
        State[] StateArray ;
        for every schedule in line item
            process schedule to modify and pass through schedule
state transition    StateArray.add (new state of this schedule)
        Endfor
        State ResultingLineItemState =

    POLineItemAggregator.getAggregatedState(StateArray)
        ModifyStateOfLineItem( lineItem, resultingLineItemState );
        LineItemStateArray.add(resultingLineItemState);
    Endfor
    State resultingPoState =

    POStateAggregator.getAggregatedState(lineItemStateArray);
        ModifyStateOfPO(PO, resultingPoState);
}
```

FIG. 3